# 4.5cm broad band C/X secondary focus receiver (4000-9300 MHz)

This is a broad-band receiver with two orthogonal linear polarizations (at a 45°-angle with the horizon). The receiver delivers 4 basebands (each with two polarizations):

Baseband	<b>Center Frequency</b>	Bandwidth
1	5.250 GHz	2500 MHz
2	6.750 GHz	2500 MHz
3	6.668 GHz	200 MHz
4	4.829 GHz	200 MHz

#### **Calibration Information**

Frequency [GHz]	Channel	Polarisation	Tcal [K]	Tsys [K]	Sensitivity [K/Jy]	SEFD [Jy]	Aperture Eff. [%]	TMB/S [K/Jy]	Main Beam Eff. [%]	FWHM [arcsec]	Last update
6.668	1	lin	4.5	27	1.54	17	54	2.2	63	102	Nov 2016
6.668	2	lin	4.1	28	1.54	18	54	2.2	63	102	Nov 2016
normalized Gain curve (G = A0 + A1·Elv + A2·Elv2) Observed in confirmed											
A0 = 0.992	8 A1	= 4.212E-4	A	2 = -	6.158E-6	Jun	2016				

#### Comments:

• The gain curve was corrected for opacity (though it is small, < 0.02 throughout the band).

## Version description for OBSINP

## Channel assignment in the MBFITS data files

## **Tcal and Tsys measurements**

